

Amendments to the Specification:

Please replace the paragraph beginning at page 2, line 12, with the following amended paragraph:

~~FIG. 4 is~~ FIGS. 4A and 4B are a flow chart of a process for dynamically generating and transmitting a mobile IP key.

Please replace the paragraph beginning at page 10, line 14, with the following amended paragraph:

Referring to ~~FIG. 4~~ FIGS. 4A and 4B, after the mobile node 14 receives credentials for its home agent, it may move off of its home network 10. When the mobile needs to register with its home agent, it generates 200 a Registration Request message that includes its care-of address. The mobile node also generates 202 a Kerberos Application Request message, which includes (1) an authenticator message (e.g., a timestamp) encrypted with the MN-HA session key and (2) the ticket for the home agent. The mobile node embeds 204 the Kerberos Application Request within a key extension of the Registration Request message. The key extension is a variable bit extension included within a Registration Request message for negotiation of a key between a mobile node and a home or foreign agent. Mobile IP Working Group, *Generalized Key Distribution Extensions for*

*Mobile IP*, Internet Draft, 14 July 2000, describes examples of key extensions that may be included in a Registration Request or Registration Reply message.

Please replace the paragraph beginning at page 15, line 3, with the following amended paragraph:

Other embodiments are within the scope of the following claims. For example, a mobile IP session key may be refreshed at any time by repeating the processes described in ~~FIGS. 2-4~~ FIGS. 2-4B, except that the Kerberos Authentication Service Request and Reply messages and the Kerberos Ticket Granting Service Request and Reply messages (shown in FIG. 2) will be routed through the home agent. Additionally, a mobile node and home agent may exchange registration request and reply messages when the mobile node contacts the home agent directly over a wireless network. Finally, application of the concepts of this description are not limited to use of the Kerberos Authentication protocol, but other authentication techniques may be employed to authenticate a remote mobile node.